



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,981	12/30/2003	Mikko Jaakkola	KOLS.080PA	8840

7590 01/23/2007
Hollingsworth & Funk, LLC
8009 34th Avenue South, Suite 125
Minneapolis, MN 55425

EXAMINER

NGUYEN, KHAI MINH

ART UNIT	PAPER NUMBER
----------	--------------

2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/748,981

Applicant(s)

JAAKKOLA ET AL.

Examiner

Khai M. Nguyen

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Beer (U.S.Pub-20050101323) in view of Balogh (WO 01/63843).

Regarding claim 1, De Beer teaches a method for arranging handover in a wireless telecommunications system (paragraph 0028, handover from one base station to another for mobility when the mobile telephone moves from one cell to another), the method comprising

storing in a terminal connection settings (fig.1, SIM 10, paragraph 0033), wherein a network identifier is associated with at least some of the alternative connection settings (fig.6, paragraph 0056-0059), the network identifier identifying a target network reachable by a connection from the terminal (fig.6, paragraph 0056-0059),

comparing (paragraph 0058), in the terminal (paragraph 0058), the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting (fig.6, paragraph 0056-0059, 0068),

De Beer fails to specifically disclose selecting at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting, and carrying out handover by using the selected at least one connection setting. However, Balogh teaches selecting at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and carrying out handover by using the selected at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Balogh to De Beer to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 2, De Beer and Balogh further teach the method according to claim 1, wherein the network identifier of the at least one other available connection setting is checked in response to a need to arrange handover (see De Beer, paragraph 0028) for the original connection based on the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 3, De Beer and Balogh further teach the method according to claim 2, wherein at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting is dropped (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and a handover algorithm is executed for the remaining connection settings (see De Beer, fig.6, paragraph 0028, 0056-0059).

Regarding claim 4, De Beer and Balogh further teach the method according to claim 1, wherein at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting is dropped (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and

a handover algorithm is executed for the remaining connection settings (see De Beer, fig.6, paragraph 0028, 0056-0059).

Regarding claim 5, De Beer and Balogh further teach the method according to claim 1, wherein the network identifier associated with at least one connection setting selected by a handover algorithm is checked (see De Beer, fig.6, paragraph 0056-0059, 0063), and

handover is carried out using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), or

at least one new connection setting is selected (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 6, De Beer and Balogh further teach the method according to claim 1, wherein at least one network identifier is defined internally in the terminal and associated with at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 7, De Beer and Balogh further teach the method according to claim 1, wherein the connection setting are grouped as alternative groups of connection setting such that at least one network identifier is associated with each group (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), the network identifiers of different groups are compared with the network identifier associated (see De Beer, fig.6, paragraph 0056-0059) with the network identifier as associated with the currently applied at least on connection setting for the new connection (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 8, De Beer and Balogh further teach the method according to claim 1, wherein the at least one available connection setting is determined based on information received from the network (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 9, De Beer teaches a wireless terminal comprising means for establishing access with a wireless network (paragraph 0028, handover from one base

station to another for mobility when the mobile telephone moves from one cell to another), wherein

the terminal is configured to store connection settings (fig.1, SIM 10, paragraph 0033), wherein a network identifier is associated with at least some of the alternative connection settings (fig.6, paragraph 0056-0059), the network identifier identifying a target network reachable by a connection from the terminal (fig.6, paragraph 0056-0059),

the terminal is configured to compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting (fig.6, paragraph 0056-0059),

De Beer fails to specifically disclose the terminal is configured to select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting, and the terminal is configured to carry out handover by using the selected at least one connection setting. However, Balogh teaches the terminal is configured to select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and the terminal is configured to carry out handover by using the selected at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)). Therefore,

Art Unit: 2617

it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Balogh to De Beer to provided with opportunity to select one of available information sets or approve the available information set.

Regarding claim 10, De Beer and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to check the network identifier of the at least one other available connection setting in response to a need to arrange handover (see De Beer, paragraph 0028) for the original connection based on the currently applied at least one connection setting (see De Beer, fig.6, paragraph 0056-0059):

Regarding claim 11, De Beer and Balogh further teach the terminal according to claim 10, wherein the terminal is configured to drop at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and

the terminal is configured to execute a handover algorithm for the remaining connection settings (see De Beer, fig.6, paragraph 0056-0059).

Regarding claim 12, De Beer and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to drop at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and the terminal is configured

to execute a handover algorithm for the remaining connection settings (see De Beer, fig.6, paragraph 0056-0059).

Regarding claim 13, De Beer and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to check the network identifier associated with at least one connection setting selected by a handover algorithm (see De Beer, fig.6, paragraph 0056-0059), and the terminal is configured to carry out the handover using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (see De Beer, fig.6, paragraph 0056-0059), or

the terminal is configured to select at least one new connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 14, De Beer and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to define at least one network identifier internally and the terminal is configured to associate the network identifier with at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 15, De Beer and Balogh further teach the terminal according to claim 9, wherein the connection settings are grouped as alternative groups of connection settings, and at least one network identifier is associated with each group (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), whereby the terminal is configured to compare the network identifiers of different groups with the

network identifier associated with the currently applied at least one connection setting (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)),

The terminal is configured to select for the new connection one of the groups having the same network identifier as associated with the currently applied at least one new connection setting is selected (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 16, De Beer and Balogh further teach the terminal according to claim 9, wherein the terminal is configured to determine the available at least one connection setting based on information received from the network (see Balogh, abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)).

Regarding claim 17, De Beer teaches a computer-readable medium, wherein said computer-readable medium comprises computer-executable instructions stored thereon for controlling a wireless terminal to (paragraph 0028, handover from one base station to another for mobility when the mobile telephone moves from one cell to another):

store connection settings (fig.1, SIM 10, paragraph 0033), wherein a network identifier is associated with at least some of the alternative connection settings (fig.6, paragraph 0056-0059, 0062-0063), the network identifier identifying a target network reachable by a connection from the terminal (fig.6, paragraph 0056-0059, 0062-0063),

compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one available other connection setting (fig.6, paragraph 0056-0059, 0062-0063),

De Beer fails to specifically disclose select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting, and carry out handover by using the selected at least one connection setting. However, Balogh teaches select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)), and carry out handover by using the selected at least one connection setting (abstract, page 2, line 2 to page 3, line 9 (brief description of the invention)). Therefore, it would have been obvious to one having ordinary in the art at the time the invention was made to apply the teaching of Balogh to De Beer to provided with opportunity to select one of available information sets or approve the available information set.


Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph feild can be reached on 571.272.4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Khai Nguyen
Au: 2617

1/11/2007


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER